

SEQUENCE LISTING

<110> Salceda, Susana  
Macina, Roberto  
Hu, Ping  
Recipon, Herve  
Karra, Kalpana  
Cafferkey, Robert  
Liu, Chenghua  
Sun, Yongming

<120> Compositions and Methods Relating to Breast Specific Genes and Proteins

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cagccctgtag	tgataaagtag	agcagagaat	taccacgtcg	aaaaaaaaaa	aaaaaaaaaa		600
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<210> 26  
<211> 811  
<212> DNA  
<213> Homo sapien

<220>  
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<223> a, c, g or t

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<211> 652  
<212> DNA  
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<212> DNA	
<213> Homo sapien	
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 <211> 302  
 <212> DNA  
 <213> Homo sapien

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 <212> DNA  
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<210> 35  
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<212> DNA  
<213> *Homo sapien*

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<211> 643
<212> DNA
<213> Homo sapien
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caagagaAGT gataatGGT gataatGGAA ttgataCTGT atTTAGGATC ctTTGTTTG	240
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<212> DNA  
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<212> DNA  
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<222> (234)..(234)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (262)..(262)
<223> a, c, g or t

<400> 44
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cactatccct tacaaggca acctgacttt taataccata gattaatttt gtctgtttt 180
atactttata taaaatgtat caatcaatgat gcaatctttt gtgtcagctt cttntgtct 240
acattataact tgtgagatcc anaaaaaaaaa aaaaaacaaa aaaaaaaaaa acggcttggg 300
gcggtaacctt caaggcggcc aataaggcgg ggtctcgccg gtggggaaa tatgggtgt 360
tactcgggcg ctcaaaaat cccaaacac aacactatata caagcggcac ggcaaaaaag 420
ggggaaaacc gaaaacaaga aaacagaaaa aaaaaaaaaa aaaaaaaaaa aaacagaaaa 480
aaaaaaaaaa acgaa 495

<210> 45
<211> 651
<212> DNA
<213> Homo sapien

<400> 45
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aggacacaggat tagaaggttcatc catctgtgaa ccaggaagcc ccccttccacca gacactgtt 480

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<210> 46	
<211> 873	
<212> DNA	
<213> Homo sapien	
<400> 46	
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<210> 47	
<211> 213	
<212> DNA	
<213> Homo sapien	
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<210> 48  
 <211> 658  
 <212> DNA  
 <213> Homo sapien

<400> 48  
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 ctagccaggat acattccaga ggatgaggcg ctgtatgttc gggatggacg ctttgctgt 180  
 gccatctgcc cccatcgacc ggtactggac accctggcca tgctgactgc ccaccgtgca 240  
 ggcaagaaac atctgtccag taagtttaggg ggaagacggg atgggaaata aaccctcgaa 300  
 atctctgcac accactcttg gtgtatgtt tttattctgtt tttcccttc tcctcaggct 360  
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 agaatgaatt gagaaggaaag gaaaccaaag ctgaggctcc tctgctact cagacacgac 480  
 ttatcaccata gaggctctg cacagagtc cccactataa cagttgtcgc cggccggaa 540  
 acaggtatgg gacgggaaag ccagaggttag gaaggctcag aaggagacag atggctctaa 600  
 aaggttttc cagttgttat tctgagaaat actagtgttc tggagatgtt acttagtg 658

<210> 49  
 <211> 703  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (169)..(169)  
 <223> a, c, g or t

<400> 49  
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 tatttataac tggggccac cacactctt gtcctactgc ttcccacaga atctgagggt 480  
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gacatgggct	tgtgacatgt	ccaaggtcac	aaggccagtt	aacagcaagc	taggatgaga	600
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<210> 50  
 <211> 1251  
 <212> DNA  
 <213> Homo sapien

<400> 50	aaaaaggccc	tgagtggaa	tgtattatcc	agaagtaagc	tagttttac	atggaggatt	60
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<210> 51  
 <211> 402  
 <212> DNA

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<213> Homo sapien

<400> 51
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tcctttgtt cctccagccc tagaggttgt agctgcttc tgaagttatt atttctagat 180
gacttttgtt tttcagct ttgtatttt ctttcagcc ctctaattgcc tgtataacca 240
atttccctgt aactaaataa atttcctcca ttgaaaaaaaaaaaaaaaaaaaaaaaaaa 300
ggttgtgtgg ggttattcgg tggctctagg gctgttccc tgggtgtgtg gaatgtgggt 360
ttcccggtcc aaaatttccc caaaaaaaaaa cggacacacc tg 402

<210> 52
<211> 1042
<212> DNA
<213> Homo sapien

<400> 52
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catcccattc tcctcactaa ccaaaggcta ggaattatct gtgaatgttag gaccactgga 180
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tcttggtaat gttgcttaca ggaccagcaa tgcttctca ccttagagaca ctctcccaag 720
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cccttagaggt ggttagctgtt ctgttcaatgtt ttttctttt gtcttccag 960
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caatttcttc cattgaaaaaaaaaa aa 1042

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<210> 53  
 <211> 240  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (44)..(44)  
 <223> a, c, g or t

<400> 53  
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 gaatcgtggc tgggtgcctct tctccatgtc catcccatac cccagtgaca ggataccgtt 180  
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<210> 54  
 <211> 1590  
 <212> DNA  
 <213> Homo sapien

<400> 54  
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 gacctggact gcccggatcc tggcaccatcc gaggctcatg tctgttttga ccctgtcg 180  
 aattacaccc tcctggatga acccttcccgaa agcacagaga actcagcagg gtcccagggg 240  
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cccggtgtca tgaatggaaac ccctagact gcagggttcc tggggcctg gcctatggtc	1560
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<210> 55  
 <211> 467  
 <212> DNA  
 <213> Homo sapien

<400> 55	
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<210> 56  
 <211> 2970  
 <212> DNA  
 <213> Homo sapien

<400> 56	
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gagaatgatg	aggtaagat	cactgtcatc				2970

<210> 57  
 <211> 461  
 <212> DNA  
 <213> Homo sapien

<400> 57						
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ggaaggctcg	caacaggcct	ttgtgtgggc	tctgccagag	actgttctga	acacttgctt	180
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gatccgggtc	aaaattccac	ccaaactata	cgagacatac	ggagcatagc	gacagagaag	420
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<210> 58  
 <211> 1032  
 <212> DNA  
 <213> Homo sapien

<400> 58  
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Phe Phe Phe Lys Arg Arg Ile Leu Gly Phe Phe Gly Glu Thr Lys Ala		
35	40	45

Asp Ile Lys Ser Tyr Lys Asp Phe Arg Phe Ser Phe Thr Lys Lys Val		
50	55	60

Ile His Ile Leu His Tyr Thr Arg Tyr Asp Ile Asn Thr Gly Lys Tyr			
65	70	75	80

Tyr Val His Cys Lys Glu Lys Gly Lys Ile Glu Thr Tyr	
85	90

<210> 67  
 <211> 59  
 <212> PRT  
 <213> Homo sapien

<400> 67

Met Gly Lys Lys Ala His Arg His Leu Gln Phe Thr Ser Phe Lys Phe			
1	5	10	15

Leu Lys Lys Thr Pro Gln Lys Lys Pro Phe Leu Pro Gly Lys Ala His		
20	25	30

Glu Ile Asn Tyr Arg Ile Glu Leu Tyr Asn Ser Thr Ser Thr Ser Leu		
35	40	45

Thr Leu Met Cys Phe Ala Lys Asn Leu Glu Lys  
 50 55

<210> 68  
 <211> 59  
 <212> PRT  
 <213> Homo sapien

<400> 68

Met Ser Ile Tyr Ser Phe Ile Leu Val Lys Asn Ile Arg Gln Ser Arg  
 1 5 10 15

Gly Arg Phe Lys Ser Glu Lys Lys Lys Lys Lys Lys Lys Ser Ala  
 20 25 30

Gly Gly Thr Ser Gly Pro Lys Gly Ser Arg Gly Glu Leu Val Ser Arg  
 35 40 45

Pro Lys Phe Pro Pro Asn Phe Pro Pro Lys Gly  
 50 55

<210> 69  
 <211> 55  
 <212> PRT  
 <213> Homo sapien

<400> 69

Met Thr Ile Leu Asn Tyr Ser Ile Asn Met Arg Cys Trp Leu Lys Ser  
 1 5 10 15

Phe Ser Arg Leu Leu Met Ser Thr Ser Val Leu Val Phe Leu Gly Thr  
 20 25 30

Ser Tyr Phe Tyr Leu Gly Phe Trp Pro Tyr Leu Ser Ser Ile Thr Ser  
 35 40 45

Pro Glu Thr Ser His Gly Asn  
 50 55

<210> 70  
 <211> 69  
 <212> PRT  
 <213> Homo sapien

<400> 70

Met Ser Val Phe Phe Cys Val Lys Thr Pro Asp Thr Lys Thr Thr His  
 1 5 10 15

Lys Thr Asn Lys Arg Lys Glu Asn Val Ala Arg Ile Leu Val Ser Leu  
 20 25 30

Thr Val Glu Asp Pro Asp Gln Ala Val Gln Asn Val Ala His Gly Thr  
 35 40 45

Glu Arg Thr Gly Val Thr Thr Glu Ile Lys Phe Val Gly Leu Gly Val  
 50 55 60

Val Ala Pro Ser Gly  
 65

<210> 71  
 <211> 59  
 <212> PRT  
 <213> Homo sapien

<400> 71

Met Leu Ala Asp Ile Gly Val Leu Ile His Met Lys Trp Ile Asp Thr  
 1 5 10 15

Ser Ser Arg His His Thr Ala Val Gln Ser Ile Gln Gly Arg Glu Ala  
 20 25 30

Thr Ser Arg Leu Thr Thr Phe Leu Ala Gly Ser Gly Glu Leu Cys Pro  
 35 40 45

Arg Lys Pro Thr Arg Arg Ser Gly Thr Glu Glu  
 50 55

<210> 72  
 <211> 50  
 <212> PRT  
 <213> Homo sapien

<400> 72

Met Phe Cys Ser Glu Asn Thr Leu Pro Gln Asp Ile Leu Gln Leu Ser  
 1 5 10 15

Tyr Cys Ile Gln Leu Ser Ala Gln Val Leu Thr Asp Glu Thr Cys His  
 20 25 30

Pro Tyr Ser Thr Pro Cys Ser Ala Leu Leu Asn Ser Asn Ala His Met  
 35 40 45

Ala Pro  
50

<210> 73  
<211> 74  
<212> PRT  
<213> Homo sapien

<400> 73

Met Lys Gln Arg Ile Ser Lys Glu Thr Thr Lys Asp Ile Gly Asn Ser  
1 5 10 15

Gln Lys Pro His Ala Asp Ala Glu Leu Gly Val Lys Asp Cys His Thr  
20 25 30

Val Ser Asn Cys Arg Gly Val Cys His Ile Asp Ala Phe His Thr Leu  
35 40 45

Glu Val Ala Arg Ala Ser Trp Val Thr Leu Pro Gln Arg Lys Asp Arg  
50 55 60

Cys Val Pro Gly Gln Cys Arg Gly Glu Met  
65 70

<210> 74  
<211> 133  
<212> PRT  
<213> Homo sapien

<400> 74

Met Lys Ser Gln Glu Arg Met Asn Ser Cys Asp Gln Leu Gln Lys Thr  
1 5 10 15

Gln Ala Asp Ser Ile Leu Arg Asp Thr Leu Tyr His Phe Gly Arg Ser  
20 25 30

Pro Thr His Leu Gly Lys Thr Gly Met Ser Leu Arg Gly Ser Gly Arg  
35 40 45

Ser Ser Arg Trp Leu Thr Val Val Gly Ala Ala Val Val Ala Val Val  
50 55 60

Ala Ala Asp Ser Gly Phe Ser Ile Arg Gly Phe Ile Ile Ser Arg Thr  
65 70 75 80

Ser Ser Trp Ile Arg Val Ser Trp Ile Ser Cys Tyr Ser Asp Leu Trp  
 85 90 95

Ala Glu Thr Thr Asn Asp Gly Thr Pro Gln Ser Thr Ser Pro Thr Ser  
 100 105 110

Ala Ile His Thr Leu Ala Pro Arg Arg His Asp Leu Glu Ala His Arg  
 115 120 125

Leu Ser Gly Tyr His  
 130

<210> 75  
 <211> 72  
 <212> PRT  
 <213> Homo sapien  
  
 <400> 75

Met Trp Ser Val Ser Pro Cys Ser Leu Pro Glu Gln Cys Leu Arg Phe  
 1 5 10 15

Glu Trp Asp Pro Thr Phe Val Asn Glu Ile Tyr His Leu Pro Arg Gln  
 20 25 30

Asn Asn Arg Phe Cys Pro Arg Cys Cys Asp Val Thr Met Val Ala Ile  
 35 40 45

Thr Ala Ile Thr Tyr Asn Tyr Trp His Thr Tyr Asp Glu Ser Arg Thr  
 50 55 60

Gly Pro Lys Cys Phe Leu Thr Met  
 65 70

<210> 76  
 <211> 93  
 <212> PRT  
 <213> Homo sapien  
  
 <400> 76

Met Ser Leu Cys Cys Asp Gly Pro Phe Pro Ser Leu Phe Gly Tyr Pro  
 1 5 10 15

Pro Leu Thr Ile Leu Ile His Val Leu Phe Gln Lys Val Ser Pro Ile  
 20 25 30

Lys Trp His Leu Gly Thr Thr Met Ala Gly Ile Ala Leu Ala Met Asn

35

40

45

Ser Thr Val Val Thr Leu Ser His Ser Arg Ala Val His Phe Ile Met  
 50 55 60

Asn Asp Leu Arg Ile Ser Pro Gly Lys Ser Pro Arg Gln Ala Leu Pro  
 65 70 75 80

Leu Leu Leu Ala Leu Gln Cys Glu Val Ser Trp Glu Arg  
 85 90

<210> 77  
 <211> 500  
 <212> PRT  
 <213> Homo sapien

<400> 77

Met Lys Cys Thr Ala Arg Glu Trp Leu Arg Val Thr Thr Val Leu Phe  
 1 5 10 15

Met Ala Arg Ala Ile Pro Ala Met Val Val Pro Asn Ala Thr Leu Leu  
 20 25 30

Glu Lys Leu Leu Glu Lys Tyr Met Asp Glu Asp Gly Glu Trp Trp Ile  
 35 40 45

Ala Lys Gln Arg Gly Lys Arg Ala Ile Thr Asp Asn Asp Met Gln Ser  
 50 55 60

Ile Leu Asp Leu His Asn Lys Leu Arg Ser Gln Val Tyr Pro Thr Ala  
 65 70 75 80

Ser Asn Met Glu Tyr Met Thr Trp Asp Val Glu Leu Glu Arg Ser Ala  
 85 90 95

Glu Ser Trp Ala Glu Ser Cys Leu Trp Glu His Gly Pro Ala Ser Leu  
 100 105 110

Leu Pro Ser Ile Gly Gln Asn Leu Gly Ala His Trp Gly Arg Tyr Arg  
 115 120 125

Pro Pro Thr Phe His Val Gln Ser Trp Tyr Asp Glu Val Lys Asp Phe  
 130 135 140

Ser Tyr Pro Tyr Glu His Glu Cys Asn Pro Tyr Cys Pro Phe Arg Cys

145	150	155	160
Ser Gly Pro Val Cys Thr His Tyr Thr Gln Val Val Trp Ala Thr Ser			
165	170		175
Asn Arg Ile Gly Cys Ala Ile Asn Leu Cys His Asn Met Asn Ile Trp			
180	185		190
Gly Gln Ile Trp Pro Lys Ala Val Tyr Leu Val Cys Asn Tyr Ser Pro			
195	200		205
Lys Gly Asn Trp Trp Gly His Ala Pro Tyr Lys His Gly Arg Pro Cys			
210	215		220
Ser Ala Cys Pro Pro Ser Phe Gly Gly Cys Arg Glu Asn Leu Cys			
225	230		240
Tyr Lys Glu Gly Ser Asp Arg Tyr Tyr Pro Pro Arg Glu Glu Glu Thr			
245	250		255
Asn Glu Ile Glu Arg Gln Gln Ser Gln Val His Asp Thr His Val Arg			
260	265		270
Thr Arg Ser Asp Asp Ser Ser Arg Asn Glu Val Ile Ser Ala Gln Gln			
275	280		285
Met Ser Gln Ile Val Ser Cys Glu Val Arg Leu Arg Asp Gln Cys Lys			
290	295		300
Gly Thr Thr Cys Asn Arg Tyr Glu Cys Pro Ala Gly Cys Leu Asp Ser			
305	310		315
320			
Lys Ala Lys Val Ile Gly Ser Val His Tyr Glu Met Gln Ser Ser Ile			
325	330		335
Cys Arg Ala Ala Ile His Tyr Gly Ile Ile Asp Asn Asp Gly Gly Trp			
340	345		350
Val Asp Ile Thr Arg Gln Gly Arg Lys His Tyr Phe Ile Lys Ser Asn			
355	360		365
Arg Asn Gly Ile Gln Thr Ile Gly Lys Tyr Gln Ser Ala Asn Ser Phe			
370	375		380

Thr Val Ser Lys Val Thr Val Gln Ala Val Thr Cys Glu Thr Thr Val  
 385 390 395 400

Glu Gln Leu Cys Pro Phe His Lys Pro Ala Ser His Cys Pro Arg Val  
 405 410 415

Tyr Cys Pro Arg Asn Cys Met Gln Ala Asn Pro His Tyr Ala Arg Val  
 420 425 430

Ile Gly Thr Arg Val Tyr Ser Asp Leu Ser Ser Ile Cys Arg Ala Ala  
 435 440 445

Val His Ala Gly Val Val Arg Asn His Gly Gly Tyr Val Asp Val Met  
 450 455 460

Pro Val Asp Lys Arg Lys Thr Tyr Ile Ala Ser Phe Gln Asn Gly Ile  
 465 470 475 480

Phe Ser Glu Ser Leu Gln Asn Pro Pro Gly Gly Lys Ala Phe Arg Val  
 485 490 495

Phe Ala Val Val  
 500

<210> 78  
 <211> 51  
 <212> PRT  
 <213> Homo sapien

<400> 78

Met Val Thr Thr Gln Asn Leu Arg Leu Thr Ile Val Glu Val Arg Gly  
 1 5 10 15

Gln Gly Ala Gly Arg Ala Gly Ser Phe Leu Ser Ser Ile Met Gly Ala  
 20 25 30

Ala Gly Arg Ile Gln Phe Leu Ala Gly Leu Gly Arg Arg Ser Pro Val  
 35 40 45

Pro Ala Ala  
 50

<210> 79  
 <211> 50  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 79

Met	Val	Phe	Tyr	Tyr	Tyr	Tyr	Gly	Phe	Lys	Lys	Ser	Asn	Phe	Ile
1			5					10					15	

Ser	Phe	Cys	Lys	Glu	Leu	Ser	Asn	Ile	Leu	Tyr	Arg	Phe	Cys	Glu	Arg
		20					25				30				

Thr	Tyr	Phe	Leu	Thr	Val	Ile	Phe	Ile	Ser	Phe	Lys	Ile	Phe	Val	Ser
	35					40					45				

His	Leu
	50

<210>	80
<211>	229
<212>	PRT
<213>	Homo sapien

&lt;400&gt; 80

Met	Ala	Glu	Glu	Met	Glu	Ser	Ser	Leu	Glu	Ala	Ser	Phe	Ser	Ser	Ser
1				5				10				15			

Gly	Ala	Val	Ser	Gly	Ala	Ser	Gly	Phe	Leu	Pro	Pro	Ala	Arg	Ser	Arg
		20					25					30			

Ile	Phe	Lys	Ile	Ile	Val	Ile	Gly	Asp	Ser	Asn	Val	Gly	Lys	Thr	Cys
		35				40					45				

Leu	Thr	Tyr	Arg	Phe	Cys	Ala	Gly	Arg	Phe	Pro	Asp	Arg	Thr	Glu	Ala
	50				55					60					

Thr	Ile	Gly	Val	Asp	Phe	Arg	Glu	Arg	Ala	Val	Glu	Ile	Asp	Gly	Glu
65				70				75			80				

Arg	Ile	Lys	Ile	Gln	Leu	Trp	Asp	Thr	Ala	Gly	Gln	Glu	Arg	Phe	Arg
			85					90				95			

Lys	Ser	Met	Val	Gln	His	Tyr	Tyr	Arg	Asn	Val	His	Ala	Val	Val	Phe
			100					105				110			

Val	Tyr	Asp	Met	Thr	Asn	Met	Ala	Ser	Phe	His	Ser	Leu	Pro	Ser	Trp
		115					120					125			

Ile	Glu	Glu	Cys	Lys	Gln	His	Leu	Leu	Ala	Asn	Asp	Ile	Pro	Arg	Ile
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130

135

140

Leu Val Gly Asn Lys Cys Asp Leu Arg Ser Ala Ile Gln Val Pro Thr  
 145 150 155 160

Asp Leu Ala Gln Lys Phe Ala Asp Thr His Ser Met Pro Leu Phe Glu  
 165 170 175

Thr Ser Ala Lys Asn Pro Asn Asp His Val Glu Ala Ile Phe  
 180 185 190

Met Thr Leu Ala His Lys Leu Lys Ser His Lys Pro Leu Met Leu Ser  
 195 200 205

Gln Pro Pro Asp Asn Gly Ile Ile Leu Lys Pro Glu Pro Lys Pro Ala  
 210 215 220

Met Thr Cys Trp Cys  
 225

<210> 81  
 <211> 42  
 <212> PRT  
 <213> Homo sapien

<400> 81

Met Asn Val Phe Lys Ile Tyr Asn Arg Thr Gln Ser Gly Arg Val Phe  
 1 5 10 15

Phe Gly Gly Arg Gly Leu Phe Ser Asn Ser Arg Trp His Ile Ser Gly  
 20 25 30

Gln Gln Tyr Phe Leu Thr His Ser Asn Gln  
 35 40

<210> 82  
 <211> 56  
 <212> PRT  
 <213> Homo sapien

<400> 82

Met Tyr Leu Lys Glu Lys Tyr Pro Asp Leu Lys Pro Thr Ala Asp Val  
 1 5 10 15

Ala Asn Phe His Thr Thr Ala Gly His Gly Ser Leu Leu Thr Thr His  
 20 25 30

Cys His Leu Arg Leu Cys Leu Cys Phe Ile Gln Arg Glu Arg Gly Gly  
 35 40 45

Leu Lys Gly Met Leu Pro Gly Gly  
 50 55

<210> 83  
 <211> 72  
 <212> PRT  
 <213> Homo sapien  
 <400> 83

Met Leu Ser Pro Phe Leu Leu Ile Asn Asn Leu Tyr Tyr Lys Lys Lys  
 1 5 10 15

Lys Lys Lys Lys Lys Arg Arg Gly Gly Asn Gln Gly Pro Ile Arg Gly  
 20 25 30

Phe Pro Gly Gly Glu Trp Val Thr Arg Ser Gln Phe His Thr Phe Ala  
 35 40 45

Arg Gln Gln Thr Gly Glu Ala Gly Pro Arg Arg Glu Ala Arg Gln  
 50 55 60

Glu Gln Ala His Arg Glu Thr Glu  
 65 70

<210> 84  
 <211> 27  
 <212> PRT  
 <213> Homo sapien  
 <400> 84

Met His Val Glu Arg Arg Ser Val Met Asp Ala Trp Ser Arg Arg Gly  
 1 5 10 15

Ala Gly Lys Tyr Thr Asp Ile Lys Asp Gln Ile  
 20 25

<210> 85  
 <211> 292  
 <212> PRT  
 <213> Homo sapien  
 <400> 85

Met Asn Arg Phe Gly Thr Arg Leu Val Gly Ala Thr Ala Thr Ser Ser  
 1 5 10 15

Pro Pro Pro Lys Ala Arg Ser Asn Glu Asn Leu Asp Lys Ile Asp Met  
 20 25 30

Ser Leu Asp Asp Ile Ile Lys Leu Asn Arg Lys Glu Gly Lys Lys Gln  
 35 40 45

Asn Phe Pro Arg Leu Asn Arg Arg Leu Leu Gln Gln Ser Gly Ala Gln  
 50 55 60

Gln Phe Arg Met Arg Val Arg Trp Gly Ile Gln Gln Asn Ser Gly Phe  
 65 70 75 80

Gly Lys Thr Ser Leu Asn Arg Arg Gly Arg Val Met Pro Gly Lys Arg  
 85 90 95

Arg Pro Asn Gly Val Ile Thr Gly Leu Ala Ala Arg Lys Thr Thr Gly  
 100 105 110

Ile Arg Lys Gly Ile Ser Pro Met Asn Arg Pro Pro Leu Ser Asp Lys  
 115 120 125

Asn Ile Glu Gln Tyr Phe Pro Val Leu Lys Arg Lys Ala Asn Leu Leu  
 130 135 140

Arg Gln Asn Glu Gly Gln Arg Lys Pro Val Ala Val Leu Lys Arg Pro  
 145 150 155 160

Ser Gln Leu Ser Arg Lys Asn Asn Ile Pro Ala Asn Phe Thr Arg Ser  
 165 170 175

Gly Asn Lys Leu Asn His Gln Lys Asp Thr Arg Gln Ala Thr Phe Leu  
 180 185 190

Phe Arg Arg Gly Leu Lys Val Gln Ala Gln Leu Asn Thr Glu Gln Leu  
 195 200 205

Leu Asp Asp Val Val Ala Lys Arg Thr Arg Gln Trp Arg Thr Ser Thr  
 210 215 220

Thr Asn Gly Gly Ile Leu Thr Val Ser Ile Asp Asn Pro Gly Ala Val  
 225 230 235 240

Gln Cys Pro Val Thr Gln Lys Pro Arg Leu Thr Arg Thr Ala Val Pro  
 245 250 255

Ser Phe Leu Thr Lys Arg Glu Gln Ser Asp Val Lys Lys Val Pro Lys  
 260 265 270

Gly Val Pro Leu Gln Phe Asp Ile Asn Ser Val Gly Lys Gln Thr Arg  
 275 280 285

Ile Thr Leu Lys  
 290

<210> 86  
 <211> 34  
 <212> PRT  
 <213> Homo sapien

<400> 86

Met Val Phe Lys Glu Leu Ser Val Leu Pro Arg Cys Phe Trp Gly Ser  
 1 5 10 15

Pro Val Phe His Ser Val Ile Pro Phe Lys Arg Leu Ser Lys Ser Leu  
 20 25 30

Phe Asn

<210> 87  
 <211> 26  
 <212> PRT  
 <213> Homo sapien

<400> 87

Met His Thr Phe Thr Gly Lys His Asn Ser Phe Ser Leu Arg Lys Asn  
 1 5 10 15

Ala Glu Tyr Leu Leu Gln Leu Arg Lys Ile  
 20 25

<210> 88  
 <211> 129  
 <212> PRT  
 <213> Homo sapien

<400> 88

His Met Phe Glu Asp Phe Ser Phe Pro Phe Ala Ile Phe Leu Phe Phe

61

1

5

10

15

Leu Arg Arg Arg Ser Ala Leu Thr Pro Arg Leu Glu Ala Ser Gly Ala  
20 25 30

Ile Leu Ala Tyr Cys Asn Leu His Pro Pro Gly Ser Ser Asp Ser Pro  
35 40 45

Ala Ser Ala Ser Gly Val Ala Gly Ile Thr Gly Ala Arg His His Val  
50 55 60

Arg Leu Ile Phe Val Phe Ser Val Glu Thr Gly Phe Cys Tyr Val Gly  
65 70 75 80

Gln Ala Gly Leu Lys Leu Leu Thr Ser Ser Asp Pro Pro Ala Ser Ala  
85 90 95

Ser Gln Ser Val Arg Ile Thr Gly Val Ser His Arg Ala Arg Leu Lys  
100 105 110

Ile Phe Leu Asn Cys Asn Lys Tyr Ser Ala Phe Phe Glu Ser Leu Tyr  
115 120 125

Leu

<210> 89  
<211> 15  
<212> PRT  
<213> Homo sapien

<400> 89

Met Ala Thr Leu Ala Gly Tyr Phe Leu Ala Lys Phe Leu Leu Arg  
1 5 10 15

<210> 90  
<211> 71  
<212> PRT  
<213> Homo sapien

<400> 90

Met Lys His Gly Ser Phe Tyr Phe Thr Val Ser Asn Leu Ile Ala Ser  
1 5 10 15

His Leu Lys Ser Ala Lys Ile Glu Leu Pro Lys Lys Cys Tyr Met Pro  
20 25 30

Lys Gly Ala His Asn Tyr Leu Met Ala Lys Leu Ile Lys Leu Thr Ser  
 35 40 45

Pro Lys Ser Asp Ser Arg Asp Leu Leu Cys Pro Ser Leu Trp Cys Phe  
 50 55 60

Phe Ala Leu His Ile Cys Phe  
 65 70

<210> 91  
 <211> 35  
 <212> PRT  
 <213> Homo sapien

<400> 91

Met Leu Ala Arg Leu Leu Leu Met Ile Lys Ser Leu Asp Pro His Thr  
 1 5 10 15

Arg Phe Ala Met Val Thr Leu Ser Arg Thr Glu Ile Pro Leu Val Leu  
 20 25 30

Tyr Lys Arg  
 35

<210> 92  
 <211> 48  
 <212> PRT  
 <213> Homo sapien

<400> 92

Met Phe Thr Ser Thr Thr Leu Asn Gln Leu Leu Ser Ile Leu Tyr Ile  
 1 5 10 15

Phe Tyr Ser Ile Phe Phe Ser Asn Phe Leu His Phe Pro Met Ser Leu  
 20 25 30

Lys Phe Ser Val Asn Val Asn Phe Lys Asn Cys Thr Val Trp Leu Phe  
 35 40 45

<210> 93  
 <211> 67  
 <212> PRT  
 <213> Homo sapien

<400> 93

Met Cys Met Ser Arg Phe Glu Ser Leu Gly Cys Arg Phe Val Leu Pro  
 1 5 10 15

Trp Gln Arg Lys Arg Ser Leu Trp Gly Gly Glu Leu Phe Leu Val Ile  
 20 25 30

Ser Gly Lys Arg His Ile Glu Thr Leu Tyr Glu Trp Gly Phe Cys Phe  
 35 40 45

Lys Cys Trp Lys Ile Arg Ala Gly Ile Thr Cys Leu Gln Val Val Pro  
 50 55 60

Ser Leu Val  
 65

<210> 94  
 <211> 145  
 <212> PRT  
 <213> Homo sapien

<400> 94

Met Leu Pro Ala Gly Thr Leu Val Gly Ala Gly Leu Gly Val Pro His  
 1 5 10 15

Pro Gln Thr Pro Cys Phe Leu Gln Gly His Trp Trp Val Leu Ala Trp  
 20 25 30

Gly Phe Leu Thr His Lys His His Ala Ser Cys Arg Asp Val Asp Gly  
 35 40 45

Arg Trp Pro Gly Arg Ser Ser His Thr Thr Ala Met Leu Pro Ala Gly  
 50 55 60

Thr Leu Val Gly Ala Gly Leu Gly Leu Pro His Ile Gln Thr Pro Cys  
 65 70 75 80

Phe Leu Gln Gly Arg Trp Cys Ala Leu Ala Trp Gly Phe Leu Thr Tyr  
 85 90 95

Lys Pro His Ala Ser Tyr Arg Ala Arg Trp Trp Thr Ala Gly Pro Glu  
 100 105 110

Ala Ser Ser His Thr Ile Ala Ile Leu Pro His Gly Thr Leu Ala Ala  
 115 120 125

Arg Thr Gly Leu Gly Leu Pro His Pro Gln Thr Pro Cys Leu Pro Ile  
 130 135 140

Asp  
 145

<210> 95  
 <211> 48  
 <212> PRT  
 <213> Homo sapien

<400> 95

Met Gly Val Tyr Ser Gly Ala Gln Asn Ile Pro Thr His Asn Thr Ile  
 1 5 10 15

Ser Ser Gly Thr Ala Lys Lys Gly Glu Asn Arg Lys Gln Glu Asn Arg  
 20 25 30

Lys Lys Lys Arg Lys Lys Lys Asn Arg Lys Lys Lys Asn Glu  
 35 40 45

<210> 96  
 <211> 71  
 <212> PRT  
 <213> Homo sapien

<400> 96

Met Ala Gly Gly Ala Lys Glu Leu Pro Arg Ala Ser Phe Ile Arg Ala  
 1 5 10 15

Leu Ile Leu Cys Lys Arg Ala Glu Ser Ser Gly Pro Asn Arg Phe Pro  
 20 25 30

Lys Leu Leu Thr Leu Gly Met Arg Val Gln Tyr Thr Asn Phe Trp Gly  
 35 40 45

Thr Gln Thr Phe Arg Pro Gln Gln Tyr Pro Asn Tyr Ile Arg Asp Leu  
 50 55 60

Lys Ser Thr Thr Lys Asn Lys  
 65 70

<210> 97  
 <211> 291  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 97

Met	Leu	Arg	Arg	Glu	Ala	Arg	Leu	Arg	Arg	Glu	Tyr	Leu	Tyr	Arg	Lys
1															15
				5											

Ala	Arg	Glu	Glu	Ala	Gln	Arg	Ser	Ala	Gln	Glu	Arg	Lys	Glu	Arg	Leu
															30
				20					25						

Arg	Arg	Ala	Leu	Glu	Glu	Asn	Arg	Leu	Ile	Pro	Thr	Glu	Leu	Arg	Arg
															45
				35					40						

Glu	Ala	Leu	Ala	Leu	Gln	Gly	Ser	Leu	Glu	Phe	Asp	Asp	Ala	Gly	Gly
															60
				50					55						

Glu	Gly	Val	Thr	Ser	His	Val	Asp	Asp	Glu	Tyr	Arg	Trp	Ala	Gly	Val
															80
				65					70		75				

Glu	Asp	Pro	Lys	Val	Met	Ile	Thr	Thr	Ser	Arg	Asp	Pro	Ser	Ser	Arg
															95
				85					90						

Leu	Lys	Met	Phe	Ala	Lys	Glu	Leu	Lys	Leu	Val	Phe	Pro	Gly	Ala	Gln
															110
				100					105						

Arg	Met	Asn	Arg	Gly	Arg	His	Glu	Val	Gly	Ala	Leu	Val	Arg	Ala	Cys
															125
				115					120						

Lys	Ala	Asn	Gly	Val	Thr	Asp	Leu	Leu	Val	Val	His	Glu	His	Arg	Gly
															140
				130					135						

Thr	Pro	Val	Gly	Leu	Ile	Val	Ser	His	Leu	Pro	Phe	Gly	Pro	Thr	Ala
															160
				145					150		155				

Tyr	Phe	Thr	Leu	Cys	Asn	Val	Val	Met	Arg	His	Asp	Ile	Pro	Asp	Leu
															175
				165					170						

Gly	Thr	Met	Ser	Glu	Ala	Lys	Pro	His	Leu	Ile	Thr	His	Gly	Phe	Ser
															190
				180					185						

Ser	Arg	Leu	Gly	Lys	Arg	Val	Ser	Asp	Ile	Leu	Arg	Tyr	Leu	Phe	Pro
															205
				195					200						

Val	Pro	Lys	Asp	Asp	Ser	His	Arg	Val	Ile	Thr	Phe	Ala	Asn	Gln	Asp
															220
				210					215						

Asp Tyr Ile Ser Phe Arg His His Val Tyr Lys Lys Thr Asp His Arg

225

230

235

240

Asn	Val	Glu	Leu	Thr	Glu	Val	Gly	Pro	Arg	Phe	Glu	Leu	Lys	Leu	Tyr
					245					250					255

Met	Ile	Arg	Leu	Gly	Thr	Leu	Glu	Gln	Glu	Ala	Thr	Ala	Asp	Val	Glu
					260			265							270

Trp	Arg	Trp	His	Pro	Tyr	Thr	Asn	Thr	Ala	Arg	Lys	Arg	Val	Phe	Leu
					275			280							285

Ser	Thr	Glu													
					290										

<210>	98														
<211>	39														
<212>	PRT														
<213>	Homo sapien														

<400>	98														
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Met	Ser	Ile	Arg	Ala	Trp	Phe	Pro	Leu	Ser	Cys	Arg	Ala	Ala	His	Val
					1		5			10					15

Met	Asp	Pro	Gly	Arg	Tyr	Trp	Thr	Pro	Gly	Met	Leu	Thr	Ala	Thr	Cys
					20			25			30				

Arg	Gln	Glu	Thr	Ser	Val	Gln									
					35										

<210>	99														
<211>	174														
<212>	PRT														
<213>	Homo sapien														

<400>	99														
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Met	Ser	Phe	Lys	Arg	Glu	Gly	Asp	Asp	Trp	Ser	Gln	Leu	Asn	Val	Leu
					1		5			10					15

Lys	Lys	Arg	Arg	Val	Gly	Asp	Leu	Leu	Ala	Ser	Tyr	Ile	Pro	Glu	Asp
					20			25			30				

Glu	Ala	Leu	Met	Leu	Arg	Asp	Gly	Arg	Phe	Ala	Cys	Ala	Ile	Cys	Pro
					35		40			45					

His	Arg	Pro	Val	Leu	Asp	Thr	Leu	Ala	Met	Leu	Thr	Ala	His	Arg	Ala
					50		55			60					

Gly Lys Lys His Leu Ser Ser Lys Leu Gly Gly Arg Arg Asp Gly Glu  
 65 70 75 80

Ala Thr Leu Glu Ile Ser Ala His His Ser Trp Cys Tyr Ala Phe Asn  
 85 90 95

Ser Val Ser Leu Ser Pro Gln Ala Leu Gln Leu Phe Tyr Gly Lys Lys  
 100 105 110

Gln Pro Gly Lys Glu Arg Lys Gln Asn Pro Lys His Gln Asn Glu Leu  
 115 120 125

Arg Arg Glu Glu Thr Lys Ala Glu Ala Pro Leu Leu Thr Gln Thr Arg  
 130 135 140

Leu Ile Thr Gln Ser Ala Leu His Arg Ala Pro His Tyr Asn Ser Cys  
 145 150 155 160

Cys Arg Arg Lys Tyr Arg Tyr Gly Thr Gly Lys Pro Glu Val  
 165 170

<210> 100

<211> 50

<212> PRT

<213> Homo sapien

<400> 100

Met Lys Tyr Pro Phe Ile Tyr Asn Tyr Phe Cys Leu Lys His Val Ser  
 1 5 10 15

Leu Tyr Ile Lys Asn Arg Tyr Phe Cys Phe His Phe Leu Ile Lys Phe  
 20 25 30

Cys Pro Tyr Phe Arg Ser Glu Lys Asn Gln Tyr Ser Asn Ile Lys Lys  
 35 40 45

Gln Glu  
 50

<210> 101

<211> 18

<212> PRT

<213> Homo sapien

<400> 101

Met	Glu	Glu	Ile	Tyr	Leu	Val	Thr	Gly	Lys	Leu	Val	Ile	Gln	Ala	Leu
1				5					10				15		

Glu Gly

<210>	102
<211>	34
<212>	PRT
<213>	Homo sapien

<400>	102
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Met	Ser	Ser	Gln	Asn	Arg	Arg	Cys	Leu	Gly	Arg	Asn	Arg	Gly	Trp	Cys
1				5				10				15			

Leu	Phe	Ser	Met	Leu	Ile	Pro	Tyr	Pro	Ser	Asp	Arg	Ile	Pro	Phe	Pro
			20					25				30			

Glu Val

<210>	103
<211>	40
<212>	PRT
<213>	Homo sapien

<400>	103
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Met	Asn	Lys	Gln	Ile	Tyr	Cys	Ser	Ser	Leu	Lys	Lys	Phe	Phe	Phe	Lys
1				5					10				15		

Gln	Ser	His	Ser	Val	Ala	Gln	Ala	Gly	Val	Lys	Gln	Cys	Asp	Leu	Ser
				20				25				30			

Ser	Leu	Gln	Pro	Pro	Pro	Pro	Glu
		35				40	

<210>	104
<211>	990
<212>	PRT
<213>	Homo sapien

<400>	104
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Met	Ser	Glu	Glu	Thr	Arg	Gln	Ser	Lys	Leu	Ala	Ala	Ala	Lys	Lys	Lys
1				5				10				15			

Leu Arg Glu Tyr Gln Gln Arg Asn Ser Pro Gly Val Pro Thr Gly Ala

69

20

25

30

Lys Lys Lys Lys Lys Ile Lys Asn Gly Ser Asn Pro Glu Thr Thr Thr  
35 40 45

Ser Gly Gly Cys His Ser Pro Glu Asp Thr Pro Lys Asp Asn Ala Ala  
50 55 60

Thr Leu Gln Pro Ser Asp Asp Thr Val Leu Pro Gly Gly Val Pro Ser  
65 70 75 80

Pro Gly Ala Ser Leu Thr Ser Met Ala Ala Ser Gln Asn His Asp Ala  
85 90 95

Asp Asn Val Pro Asn Leu Met Asp Glu Thr Lys Thr Phe Ser Ser Thr  
100 105 110

Glu Ser Leu Arg Gln Leu Ser Gln Gln Leu Asn Gly Leu Val Cys Glu  
115 120 125

Ser Ala Thr Cys Val Asn Gly Glu Gly Pro Ala Ser Ser Ala Asn Leu  
130 135 140

Lys Asp Leu Glu Ser Arg Tyr Gln Gln Leu Ala Val Ala Leu Asp Ser  
145 150 155 160

Ser Tyr Val Thr Asn Lys Gln Leu Asn Ile Thr Ile Glu Lys Leu Lys  
165 170 175

Gln Gln Asn Gln Glu Ile Thr Asp Gln Leu Glu Glu Lys Lys Glu  
180 185 190

Cys His Gln Lys Gln Gly Ala Leu Arg Glu Gln Leu Gln Val His Ile  
195 200 205

Gln Thr Ile Gly Ile Leu Val Ser Glu Lys Ala Glu Leu Gln Thr Ala  
210 215 220

Leu Ala His Thr Gln His Ala Ala Arg Gln Lys Glu Gly Glu Ser Glu  
225 230 235 240

Asp Leu Ala Ser Arg Leu Gln Tyr Ser Arg Arg Arg Val Gly Glu Leu  
245 250 255

Glu Arg Ala Leu Ser Ala Val Ser Thr Gln Gln Lys Lys Ala Asp Arg  
 260 265 270

Tyr Asn Lys Glu Leu Thr Lys Glu Arg Asp Ala Leu Arg Leu Glu Leu  
 275 280 285

Tyr Lys Asn Thr Gln Ser Asn Glu Asp Leu Lys Gln Glu Lys Ser Glu  
 290 295 300

Leu Glu Glu Lys Leu Arg Val Leu Val Thr Glu Lys Ala Gly Met Gln  
 305 310 315 320

Leu Asn Leu Glu Glu Leu Gln Lys Lys Leu Glu Met Thr Glu Leu Leu  
 325 330 335

Leu Gln Gln Phe Ser Ser Arg Cys Glu Ala Pro Asp Ala Asn Gln Gln  
 340 345 350

Leu Gln Gln Ala Met Glu Glu Arg Ala Gln Leu Glu Ala His Leu Gly  
 355 360 365

Gln Val Met Glu Ser Val Arg Gln Leu Gln Met Glu Arg Asp Lys Tyr  
 370 375 380

Ala Glu Asn Leu Lys Gly Glu Ser Ala Met Trp Arg Gln Arg Met Gln  
 385 390 395 400

Gln Met Ser Glu Gln Val His Thr Leu Arg Glu Glu Lys Glu Cys Ser  
 405 410 415

Met Ser Arg Val Gln Glu Leu Glu Thr Ser Leu Ala Glu Leu Arg Asn  
 420 425 430

Gln Met Ala Glu Pro Pro Pro Glu Pro Pro Ala Gly Pro Ser Glu  
 435 440 445

Val Glu Gln Gln Leu Gln Ala Glu Ala Glu His Leu Arg Lys Glu Leu  
 450 455 460

Glu Gly Leu Ala Gly Gln Leu Gln Ala Gln Val Gln Asp Asn Glu Gly  
 465 470 475 480

Leu Ser Arg Leu Asn Arg Glu Gln Glu Glu Arg Leu Leu Glu Leu Glu  
 485 490 495

Arg Ala Ala Glu Leu Trp Gly Glu Gln Ala Glu Ala Arg Arg Gln Ile  
 500 505 510

Leu Glu Thr Met Gln Asn Asp Arg Thr Thr Ile Ser Arg Ala Leu Ser  
 515 520 525

Gln Asn Arg Glu Leu Lys Glu Gln Leu Ala Glu Leu Gln Ser Gly Phe  
 530 535 540

Val Lys Leu Thr Asn Glu Asn Met Glu Ile Thr Ser Ala Leu Gln Ser  
 545 550 555 560

Glu Gln His Val Lys Arg Glu Leu Gly Lys Lys Leu Gly Glu Leu Gln  
 565 570 575

Glu Lys Leu Ser Glu Leu Lys Glu Thr Val Glu Leu Lys Ser Gln Glu  
 580 585 590

Ala Gln Ser Leu Gln Gln Gln Arg Asp Gln Tyr Leu Gly His Leu Gln  
 595 600 605

Gln Tyr Val Ala Ala Tyr Gln Gln Leu Thr Ser Glu Lys Glu Val Leu  
 610 615 620

His Asn Gln Leu Leu Gln Thr Gln Leu Val Asp Gln Leu Gln Gln  
 625 630 635 640

Gln Glu Ala Gln Gly Lys Ala Val Ala Glu Met Ala Arg Gln Glu Leu  
 645 650 655

Gln Glu Thr Gln Glu Arg Leu Glu Ala Ala Thr Gln Gln Asn Gln Gln  
 660 665 670

Leu Arg Ala Gln Leu Ser Leu Met Ala His Pro Gly Glu Gly Asp Gly  
 675 680 685

Leu Asp Arg Glu Glu Glu Asp Glu Glu Glu Glu Glu Ala  
 690 695 700

Val Ala Val Pro Gln Pro Met Pro Ser Ile Pro Glu Asp Leu Glu Ser  
 705 710 715 720

Arg Glu Ala Met Val Ala Phe Phe Asn Ser Ala Val Ala Ser Ala Glu  
 725 730 735

Glu Glu Gln Ala Arg Leu Arg Gly Gln Leu Lys Glu Gln Arg Val Arg  
 740 745 750

Cys Arg Arg Leu Ala His Leu Leu Ala Ser Ala Gln Lys Glu Pro Glu  
 755 760 765

Ala Ala Ala Pro Ala Pro Gly Thr Gly Gly Asp Ser Val Cys Gly Glu  
 770 775 780

Thr His Arg Ala Leu Gln Gly Ala Met Glu Lys Leu Gln Ser Arg Phe  
 785 790 795 800

Met Glu Leu Met Gln Glu Lys Ala Asp Leu Lys Glu Arg Val Glu Glu  
 805 810 815

Leu Glu His Arg Cys Ile Gln Leu Ser Gly Glu Thr Asp Thr Ile Gly  
 820 825 830

Glu Tyr Ile Ala Leu Tyr Gln Ser Gln Arg Ala Val Leu Lys Glu Arg  
 835 840 845

His Arg Glu Lys Glu Glu Tyr Ile Ser Arg Leu Ala Gln Asp Lys Glu  
 850 855 860

Glu Met Lys Val Lys Leu Leu Glu Leu Gln Glu Leu Val Leu Arg Leu  
 865 870 875 880

Val Gly Asp Arg Asn Glu Trp His Gly Arg Phe Leu Ala Ala Gln  
 885 890 895

Asn Pro Ala Asp Glu Pro Thr Ser Gly Ala Pro Ala Pro Gln Glu Leu  
 900 905 910

Gly Ala Ala Asn Gln Gln Gly Asp Leu Cys Glu Val Ser Leu Ala Gly  
 915 920 925

Ser Val Glu Pro Ala Gln Gln Gly Glu Ala Arg Glu Gly Ser Pro Arg Asp  
 930 935 940

Asn Pro Thr Ala Gln Gln Ile Met Gln Leu Leu Arg Glu Met Gln Asn  
 945 950 955 960

Pro Arg Glu Arg Pro Gly Leu Gly Ser Asn Pro Cys Ile Pro Phe Phe

73

965

970

975

Tyr Arg Ala Asp Glu Asn Asp Glu Val Lys Ile Thr Val Ile  
980 985 990

<210> 105  
<211> 91  
<212> PRT  
<213> Homo sapien

<400> 105

Met Ala Pro Ala Val Pro Pro Arg Ala Ser Phe Phe Phe Phe Leu Leu  
1 5 10 15

Phe Phe Phe Ile Phe Leu Leu Phe Lys Phe Tyr Trp Lys Phe Thr Asn  
20 25 30

Val Leu Gln Thr Ser Val Lys His His Ile His Phe Thr Gly His Gly  
35 40 45

Ser Gln Ala Ser Val Gln Asn Ser Leu Trp Gln Ser Pro His Gln Gly  
50 55 60

Leu Leu Gln Thr Phe Leu Thr Asn Ser Leu Thr Leu Asn Thr Glu His  
65 70 75 80

Arg Leu Trp Pro Ala Ser Pro Ser Gln Ala Leu  
85 90

<210> 106  
<211> 77  
<212> PRT  
<213> Homo sapien

<400> 106

Met Val Val Gly Gln Thr Pro His Thr Ser Val Leu Gln Lys His Ala  
1 5 10 15

Phe Val Cys Glu Lys Pro Gln Pro Ala Pro Thr Ser Val Leu Gln Glu  
20 25 30

Ala Trp Val Leu Gly Glu Glu Ala Pro Gly Gln Arg Pro Pro Ala Ser  
35 40 45

Leu Gln Glu Ala Trp Gln Leu Tyr Val Arg Lys Pro Arg Pro Ala Pro  
50 55 60

Thr Ser Val Pro Ala Gly Gln Ala Trp Thr Val Asn Gly  
 65 70 75

<210> 107  
 <211> 116  
 <212> PRT  
 <213> Homo sapien

<400> 107

Met Arg Gly Thr Pro Phe Leu Ser Cys Val Ala Cys Leu Val Cys Ala  
 1 5 10 15

Ser Thr Leu Leu Phe Leu Ser Leu Ser Ser Leu Lys Met Tyr Asn Lys  
 20 25 30

Ile Ser Phe Leu Ala Pro Arg Leu Ser Pro Pro Gln Asn Lys Lys Lys  
 35 40 45

Lys Lys Lys Lys Asn Pro Phe Phe Phe Phe Phe Phe Phe Leu  
 50 55 60

Phe Phe Phe Phe Phe Phe Ala His Asn Lys Asn Leu Leu Gly Glu  
 65 70 75 80

Arg Trp Leu Met Gly Gly Lys Ile Trp Ile Gln Glu Ser Ser Ile Leu  
 85 90 95

Ala Leu Ala Leu Ser Pro Asn Pro Pro Ser Leu Pro Glu Pro Arg Gly  
 100 105 110

Val Ser Pro Cys  
 115

<210> 108  
 <211> 46  
 <212> PRT  
 <213> Homo sapien

<400> 108

Met Val Thr Leu Leu Phe Ser Glu Pro Leu Leu Arg Ala Ser Gln Asp  
 1 5 10 15

Ile Met Arg Thr Asp Asn Leu Pro Trp Ser Gln Arg Pro Ser Leu Pro  
 20 25 30

Leu Ala Arg Met Phe Arg Asp Arg Gln Arg Gly Gln Trp Trp  
 35 40 45

<210> 109  
 <211> 55  
 <212> PRT  
 <213> Homo sapien

<400> 109

Met Trp Glu Leu Thr Glu Gln Tyr His His Arg Val Asn Lys Leu Trp  
 1 5 10 15

Thr Lys Asp Lys Ala Gln Ser Phe Phe Phe Phe Phe Phe Phe Phe  
 20 25 30

Arg Leu Ser Thr Leu Leu Ser Cys Pro Gln Ala Pro Arg Asn Ile Leu  
 35 40 45

Ser Pro His Leu Glu Thr Asp  
 50 55

<210> 110  
 <211> 876  
 <212> PRT  
 <213> Homo sapien  
<400> 110

Ala Ser Ala Gly Ala Ala Gly Ser Leu Thr Arg Ser Pro Ser Ser Asp  
 1 5 10 15

Phe Gln Gly Ala Ser Val Glu Lys Lys Met Ala Gln Val Leu His Val  
 20 25 30

Pro Ala Pro Phe Pro Gly Thr Pro Gly Pro Ala Ser Pro Pro Ala Phe  
 35 40 45

Pro Ala Lys Asp Pro Asp Pro Pro Tyr Ser Val Glu Thr Pro Tyr Gly  
 50 55 60

Tyr Arg Leu Asp Leu Asp Phe Leu Lys Tyr Val Asp Asp Ile Glu Lys  
 65 70 75 80

Gly His Thr Leu Arg Arg Val Ala Val Gln Arg Arg Pro Arg Leu Ser  
 85 90 95

Ser Leu Pro Arg Gly Pro Gly Ser Trp Trp Thr Ser Thr Glu Ser Leu  
 100 105 110

Cys Ser Asn Ala Ser Gly Asp Ser Arg His Ser Ala Tyr Ser Tyr Cys  
 115 120 125

Gly Arg Gly Phe Tyr Pro Gln Tyr Gly Ala Leu Glu Thr Arg Gly Gly  
 130 135 140

Phe Asn Pro Arg Val Glu Arg Thr Leu Leu Asp Ala Arg Arg Arg Leu  
 145 150 155 160

Glu Asp Gln Ala Ala Thr Pro Thr Gly Leu Gly Ser Leu Thr Pro Ser  
 165 170 175

Ala Ala Gly Ser Thr Ala Ser Leu Val Gly Val Gly Leu Pro Pro Pro  
 180 185 190

Thr Pro Arg Ser Ser Gly Leu Ser Thr Pro Val Pro Pro Ser Ala Gly  
 195 200 205

His Leu Ala His Val Arg Glu Gln Met Ala Gly Ala Leu Arg Lys Leu  
 210 215 220

Arg Gln Leu Glu Glu Gln Val Lys Leu Ile Pro Val Leu Gln Val Lys  
 225 230 235 240

Leu Ser Val Leu Gln Glu Glu Lys Arg Gln Leu Thr Val Gln Leu Lys  
 245 250 255

Ser Gln Lys Phe Leu Gly His Pro Thr Ala Gly Arg Gly Arg Ser Glu  
 260 265 270

Leu Cys Leu Asp Leu Pro Asp Pro Pro Glu Asp Pro Val Ala Leu Glu  
 275 280 285

Thr Arg Ser Val Gly Thr Trp Val Arg Glu Arg Asp Leu Gly Met Pro  
 290 295 300

Asp Gly Glu Ala Ala Leu Ala Ala Lys Val Ala Val Leu Glu Thr Gln  
 305 310 315 320

Leu Lys Lys Ala Leu Gln Glu Leu Gln Ala Ala Gln Ala Arg Gln Ala  
 325 330 335

Asp Pro Gln Pro Gln Ala Trp Pro Pro Pro Asp Ser Pro Val Arg Val  
 340 345 350

Asp Thr Val Arg Val Val Glu Gly Pro Arg Glu Val Glu Val Val Ala  
 355 360 365

Ser Thr Ala Ala Gly Ala Pro Ala Gln Arg Ala Gln Ser Leu Glu Pro  
 370 375 380

Tyr Gly Thr Gly Leu Arg Ala Leu Ala Met Pro Gly Arg Pro Glu Ser  
 385 390 395 400

Pro Pro Val Phe Arg Ser Gln Glu Val Val Glu Thr Met Cys Pro Val  
 405 410 415

Pro Ala Ala Ala Thr Ser Asn Val His Met Val Lys Lys Ile Ser Ile  
 420 425 430

Thr Glu Arg Ser Cys Asp Gly Ala Ala Gly Leu Pro Glu Val Pro Ala  
 435 440 445

Glu Ser Ser Ser Ser Pro Pro Gly Ser Glu Val Ala Ser Leu Thr Gln  
 450 455 460

Pro Glu Lys Ser Thr Gly Arg Val Pro Thr Gln Glu Pro Thr His Arg  
 465 470 475 480

Glu Pro Thr Arg Gln Ala Ala Ser Gln Glu Ser Glu Glu Ala Gly Gly  
 485 490 495

Thr Gly Pro Pro Ala Gly Val Arg Ser Ile Met Lys Arg Lys Glu  
 500 505 510

Glu Val Ala Asp Pro Thr Ala His Arg Arg Ser Leu Gln Phe Val Gly  
 515 520 525

Val Asn Gly Gly Tyr Glu Ser Ser Ser Glu Asp Ser Ser Thr Ala Glu  
 530 535 540

Asn Ile Ser Asp Asn Asp Ser Thr Glu Asn Glu Ala Pro Glu Pro Arg  
 545 550 555 560

Glu Arg Val Pro Ser Val Ala Glu Ala Pro Gln Leu Arg Pro Ala Gly  
 565 570 575

Thr Ala Ala Ala Lys Thr Ser Arg Gln Glu Cys Gln Leu Ser Arg Glu  
 580 585 590

Ser Gln His Ile Pro Thr Ala Glu Gly Ala Ser Gly Ser Asn Thr Glu  
 595 600 605

Glu Glu Ile Arg Met Glu Leu Ser Pro Asp Leu Ile Ser Ala Cys Leu  
 610 615 620

Ala Leu Glu Lys Tyr Leu Asp Asn Pro Asn Ala Leu Thr Glu Arg Glu  
 625 630 635 640

Leu Lys Val Ala Tyr Thr Thr Val Leu Gln Glu Trp Leu Arg Leu Ala  
 645 650 655

Cys Arg Ser Asp Ala His Pro Glu Leu Val Arg Arg His Leu Val Thr  
 660 665 670

Phe Arg Ala Met Ser Ala Arg Leu Leu Asp Tyr Val Val Asn Ile Ala  
 675 680 685

Asp Ser Asn Gly Asn Thr Ala Leu His Tyr Ser Val Ser His Ala Asn  
 690 695 700

Phe Pro Val Val Gln Gln Leu Leu Asp Ser Gly Val Cys Lys Val Asp  
 705 710 715 720

Lys Gln Asn Arg Ala Gly Tyr Ser Pro Ile Met Leu Thr Ala Leu Ala  
 725 730 735

Thr Leu Lys Thr Gln Asp Asp Ile Glu Thr Val Leu Gln Leu Phe Arg  
 740 745 750

Leu Gly Asn Ile Asn Ala Lys Ala Ser Gln Ala Gly Gln Thr Ala Leu  
 755 760 765

Met Leu Ala Val Ser His Gly Arg Val Asp Val Val Lys Ala Leu Leu  
 770 775 780

Ala Cys Glu Ala Asp Val Asn Val Gln Asp Asp Asp Gly Ser Thr Ala  
 785 790 795 800

Leu Met Cys Ala Cys Glu His His Lys Glu Ile Ala Gly Leu Leu

79

805

810

815

Leu Ala Val Pro Ser Cys Asp Ile Ser Leu Thr Asp Arg Asp Gly Ser  
820 825 830

Thr Ala Leu Met Val Ala Leu Asp Ala Gly Gln Ser Glu Ile Ala Ser  
835 840 845

Met Leu Tyr Ser Arg Met Asn Ile Lys Cys Ser Phe Ala Pro Met Ser  
850 855 860

Asp Asp Glu Ser Pro Thr Ser Ser Ser Ala Glu Glu  
865 870 875